APPENDIX F Wetland Delineation Report

Wetland Delineation Report

Schenectady County Airport Off Airport Obstruction Tree Removal Town of Glenville Schenectady County, New York

CHA Project Number: 052475

Prepared for: County of Schenectady 100 Kellar Avenue Schenectady, New York 12306

Prepared by:



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November 10, 2020

SIGNATURE PAGE

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LIST OF ACRONYMS & ABBREVIATIONS

BFD Bankfull Depth
BFW Bankfull Width
CWA Clean Water Act

FEMA Federal Emergency Management Agency

FWW Freshwater Wetland HUC Hydrologic Unit Code

JD Jurisdictional Determination

NRCS Natural Resources Conservation Service

NWI National Wetlands Inventory

NYSDEC New York State Department of Environmental Conservation

TNW Traditional Navigable Waters

USACE United States Army Corps of Engineers

USFWS United States Department of the Interior, Fish and Wildlife Service

USGS United States Geological Survey

1.0 INTRODUCTION

The two project areas are associated with the approach to Runway 10 at the Schenectady County Airport, located in the Town of Glenville, Schenectady County, New York (Appendix A). The jurisdictional determination (JD) areas total 37.3 acres. The approximate center point coordinates of the project areas are Latitude 42° 50' 54.03"N; Longitude 73° 56' 47.12"W.

The purpose of this report is to document the wetland communities and their boundaries as well as streams within the project area. These areas have been identified on the Wetland Delineation Map (Appendix B). The report includes a general description of the project areas, their ecology, wetland description and is complimented by wetland determination data forms (Appendix C) and site photographs (Appendix D).

CHA was retained to delineate and describe the wetlands within the project areas that may be regulated by the United States Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA). The wetland delineation was conducted by Nicole Frazer, Senior Scientist and Cole Scrivner, Scientist I on September 29, 2020.

1.1 PROJECT AREA DESCRIPTION

The project area are located in the approach to Runway 10 of the Schenectady County Airport. The project area to the west of the runway end is residential and the project area to the south (rectangular area) of the runway end is primarily forested with a small area of commercial property. Within the project area to the west of the runway end there is a perennial stream and a small emergent wetland that is fringe to the stream.

2.0 METHODOLOGY

The project areas were evaluated in accordance with the procedures provided in the 1987 Corps of Engineers Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Manual: Northcentral and Northeast Region Version 2.0 (January 2012). The "Routine Wetland Determination" method was used.

The wetland boundary was determined in the field based on the three parameter approach, whereby an area is a wetland if it exhibits vegetation adapted to wet conditions (hydrophytes), hydric soil

indicators, and the presence or evidence of water at or near the soil surface during the growing season (hydrology).

Coded surveyor's ribbons (e.g. flag code A-1, A-2, etc.) were placed along the wetland and stream boundaries based on observations of vegetation, soils and hydrologic conditions. Flagged boundaries were GPS located.

Data points were recorded along the wetland boundary. A wetland and upland data point was recorded to show the difference between the wetland and upland habitats. Wetland determination data forms corresponding to each point can be found in Appendix C.

Representative photographs of the wetland, stream and upland portions of the project area are provided in Appendix D.

Vegetative community types within the project areas are described according to *Ecological Communities of New York State, Second Edition* (Edinger 2014)¹ and *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin 1979)².

3.0 INVESTIGATION RESULTS

3.1 RESOURCE REVIEW

Prior to visiting the project areas, various maps and other sources of background information were reviewed. These included the following:

- United States Geological Survey (USGS) 7.5-minute Topographic Map
- New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands (FWW) Map
- United States Department of the Interior, Fish and Wildlife Service (USFWS), National

¹ Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological Communities of New York State*. Second Edition. A revised and expanded edition of Carol Reshke's *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

² Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe, 1979. *Classification of wetlands and deepwater habitats of the United States*. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

Wetlands Inventory (NWI) map

- Natural Resources Conservation Service (NRCS) Soil Survey for Schenectady County
- Federal Emergency Management Agency (FEMA) Flood Zone Map

Refer to Appendix A for each of these figures.

3.1.1 USGS Topographic Map

According to the USGS Topographic Map, the project areas lie west and south of the west end of Runway 10. These areas have flat topography.

3.1.2 NYSDEC Freshwater Wetlands Map

No mapped NYSDEC freshwater wetlands or 100-foot Adjacent Areas are within the project areas. However, mapped FWW S-104, a Class I wetland, is located to the north of the project areas.

3.1.3 National Wetland Inventory (NWI) Map

Review of the NWI map indicates the western project area is transected by a stream (Horstman Creek). Its Cowardin, et al (1979) classification is Riverine, Unknown Perennial, Unconsolidated Bottom, Permanently Flooded (R5UBH). This stream is connected to state wetland S-104 to the north (outside of the project limits). No other mapped features are present within the project areas, however, there are mapped wetlands south of the rectangular project area (south of the runway end) which are identified as Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PFO1E), Palustrine Scrub-Shrub, Broad-Leaved Deciduous, Seasonally Flooded/Saturated (PSS1E) and PFO1E/SS1E.

3.1.4 Soil Survey Map

Soils descriptions were obtained from the NRCS Web Soil Survey. This information was used in conjunction with on-site soil sampling to determine the presence of hydric soils. The following soils are mapped as occurring within the project areas:

• Plainfield loamy sand (PsA), 0 to 3% slopes- This soil is an excessively drained. The depth to water table and restrictive feature are more than 80 inches.

- Plainfield loamy sand (PsB), 3 to 10% slopes- This soil is an excessively drained soil. The depth to water table and restrictive feature are more than 80 inches.
- Fredon silt loam (Fr), 0 to 3% slopes- This soil is poorly drained. The depth to water table is about 0 to 6 inches and the depth to restrictive feature is more than 80 inches.

3.1.5 FEMA Floodplain Map

Based on review of the Federal Emergency Management Agency (FEMA) Flood Zone Map, Zone A (100-year floodplain) is associated with Horstman Creek within a portion of the western project area.

3.1.6 Hydrology

The water quality of surface waters in New York State are classified by the NYSDEC as either "AA", "A", "B", "C", or "D". A "T" used with the classification indicates that the stream supports, or may support, a trout population. All streams and water bodies with a classification of C(T) or higher are regulated by the NYSDEC. Horstman Creek is within the western project area. The creek has been designated by the NYSDEC as Class C/ Standard C.

The Hydrologic Unit Code (HUC) for the project areas is 020200041108 (Poentic Kill-Mohawk River).

Horstman Creek (Stream S) is a tributary of the Kromme Kill. The Kromme Kill is a tributary of the Mohawk River. The Mohawk River is a Traditional Navigable Water (TNW). The total distance water flows from the project areas to the Mohawk River is approximately 0.9 aerial miles (2.46 river miles).

3.2 FIELD INVESTIGATION

3.2.1 Vegetative Communities

Vegetative communities identified within the project areas consist of shallow emergent marsh, mowed lawn, mowed lawn with trees, mowed roadside/pathway and successional southern hardwoods.

3.2.2 Discussion of Wetland and Stream

The delineated wetland and stream are described below. Refer to Appendix B for the Wetland Delineation Map and Appendix E for the Preliminary Jurisdictional Determination Form.

Wetland A – This wetland is a small emergent wetland that is fringe to perennial Stream S. Wetland A is dominated by jewelweed (*Impatiens palida*) and also contains species such as beggar ticks (*Bidens frondosa*), sensitive fern (*Onoclea sensibilis*), silky dogwood (*Cornus amomum*), box elder (*Acer negundo*), multiflora rose (*Rosa multiflora*), river bank grape (*Vitis riparia*) and Virginia creeper (*Parthenocissus quinquefolia*). Observed hydrology indicators included saturation (A3) and a positive FAC-Neutral Test (D5). The hydric soil indicator is redox dark surface (F6).

The total size of Wetland A within the western project area is approximately 0.03 acres. Wetland A is federally jurisdictional due to its direct connection to a perennial stream.

Stream S (Horstman Creek)- The bankfull width (BFW) of the stream varies from approximately 5-12 feet and the bankfull depth (BFD) varies from approximately 1-2 feet. The stream is primarily shaded and the substrate consists of cobbles with some gravel and sand. The stream was flowing during the field investigation and is assumed to be perennial. A mix of riffle and pool areas are present. Some portions of the stream are edged with rock wall, one portion has stacked cinder blocks and another section has a concrete wall on one side of the stream. Natural stream bank is also present. No aquatic vegetation was noted. Minnows, water striders and a green frog were observed. Stream S is a tributary of the Kromme Kill that is tributary to the Mohawk River. As noted above, the Mohawk River is a TNW. The length of Stream S within the western project area is 964 linear feet. Stream S is federally jurisdictional.

3.2.3 Discussion of Terrestrial Communities

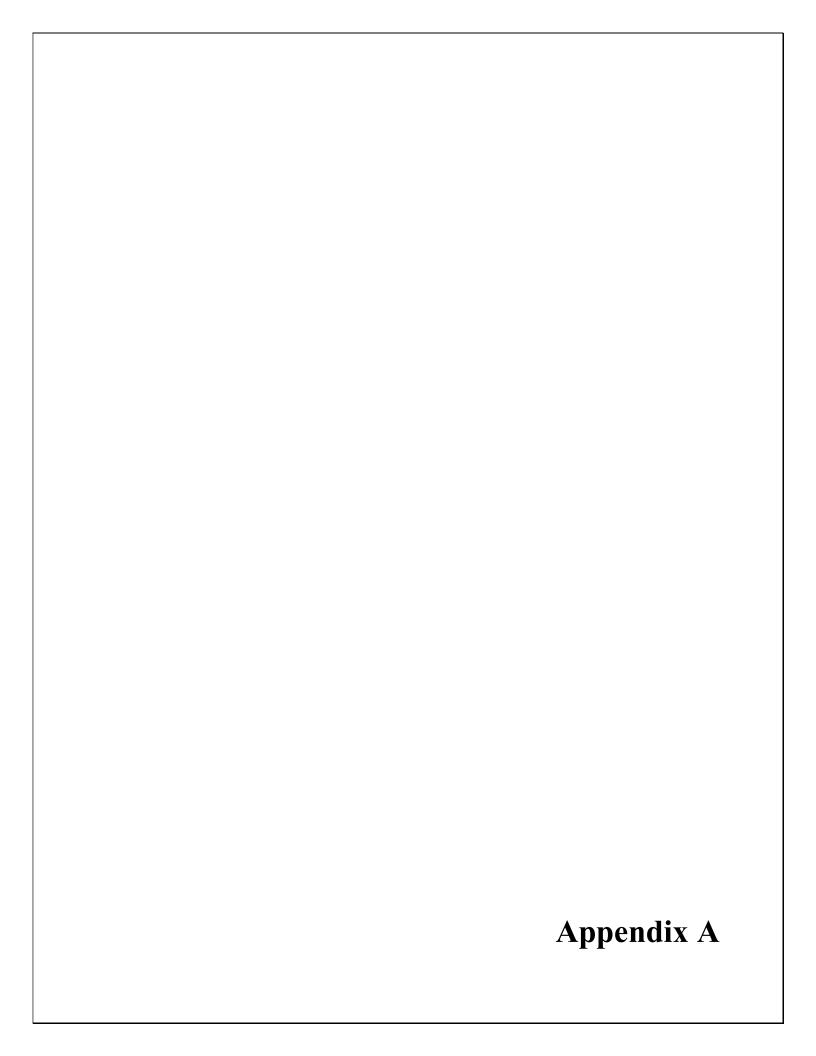
Mowed lawn- The mowed lawn areas contain grasses and species such as common plantain (*Plantago major*), English plantain (*Plantago lanceolata*), white clover (*Trifolium repens*), bedstraw (*Galium sp.*), red clover (*Trifolium pratense*) and dandelion (*Taraxacum officinale*). These areas have scattered trees that have less than 30 percent coverage. Some of the tree species include Norway maple (*Acer platanoides*), silver maple (Acer *saccharinum*), blue spruce (*Picea pungens*) and white pine (*Pinus strobus*).

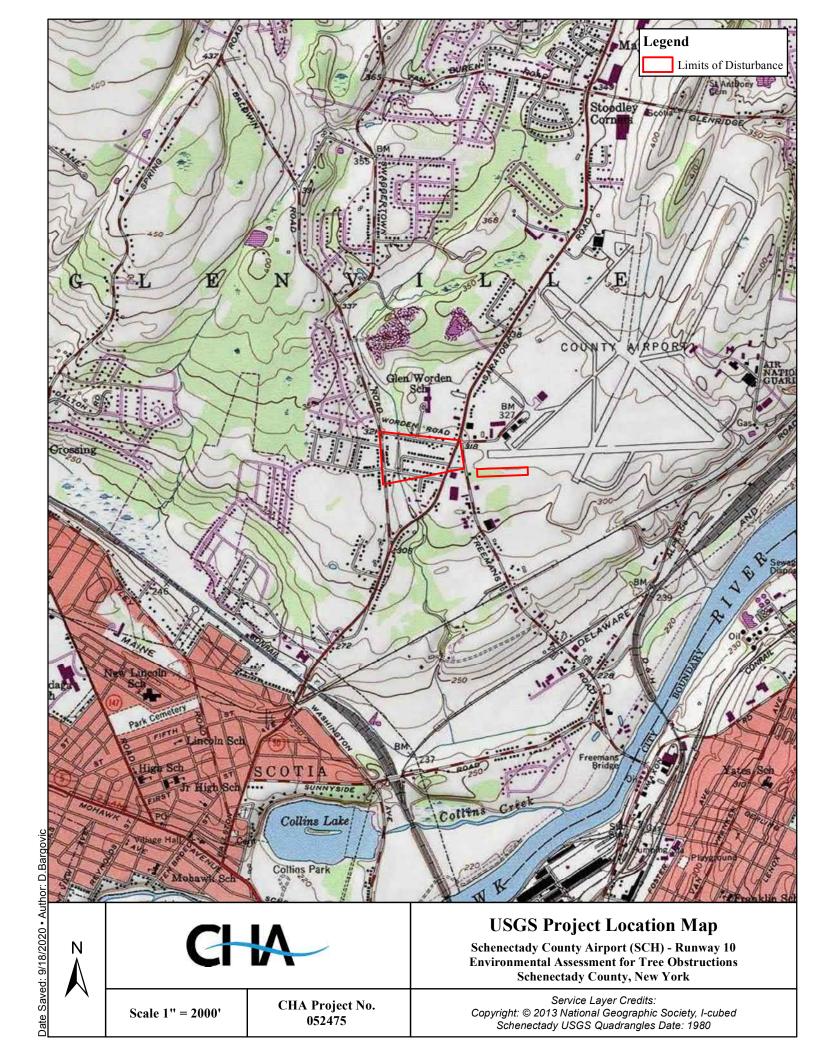
Mowed lawn with trees- These areas contain species such as grasses, white clover, dandelion and common plantain. These areas are shaded with at least 30% cover in trees. Some of these tree species

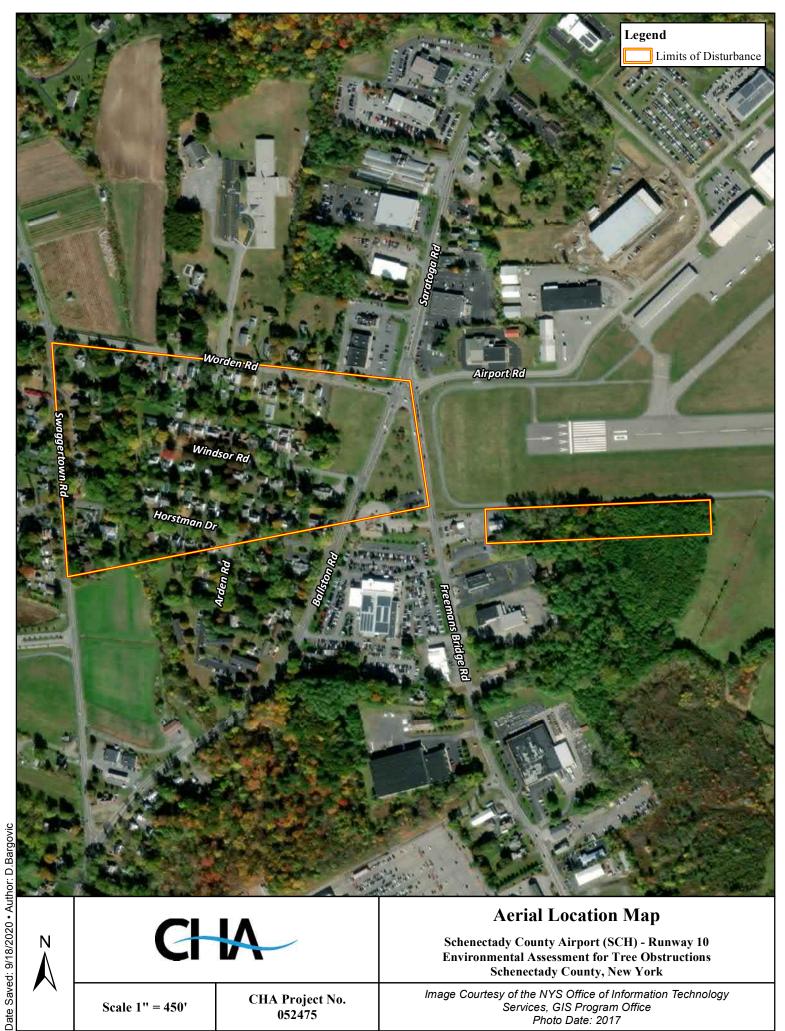
include blue spruce, Norway maple, silver maple, white pine, red pine (*Pinus resinosa*), callery pear (*Pyrus calleryana*), eastern red cedar (*Juniperus virginiana*), northern white cedar (*Thuja occidentalis*), Norway spruce (*Picea abies*), black walnut (*Juglans nigra*), scotch pine (*Pinus sylvestris*), box elder, crab apple (*Malus sp.*) and northern catalpa (*Catalpa speciosa*).

Mowed roadside/pathway- The mowed pathway contains species such as grasses, dandelion, English plantain, ground ivy (*Glechoma hederacea*), oriental bittersweet (*Celastrus orbiculatus*), wood sorrel (*Oxalis stricta*) and bedstraw.

Successional southern hardwoods - These areas contain species such as eastern cottonwood (Populus deltoides), box elder, buckthorn (Rhamnus cathartica), silver maple, white ash (Fraxinus americana), quaking aspen (Populus tremuloides), Norway maple, red oak (Quercus rubra), black cherry (Prunus serotina), witch hazel (Hamamelis virginiana), thornless honey locust (Gleditsia triacanthos f. inermis), black walnut, tree of heaven (Ailanthus altissima), gray birch (Betula populifolia), Japanese knotweed (Reynoutria japonica), honeysuckle (Lonicera sp.), staghorn sumac (Rhus typhina), black raspberry (Rubus occidentalis), jumpseed (Polygonum virginianum), white snakeroot (Ageratina altissima), stickseed (Hackelia virginiana), oriental bittersweet, poison ivy (Toxicodendron radicans), clearweed (Pilea sp.), mugwort (Artemisia vulgaris), greater celandine (Chelidonium majus), garlic mustard (Alliaria petiolata), heart leaved aster (Symphyotrichum cordifolium), Virginia creeper and grape (Vitis sp.).





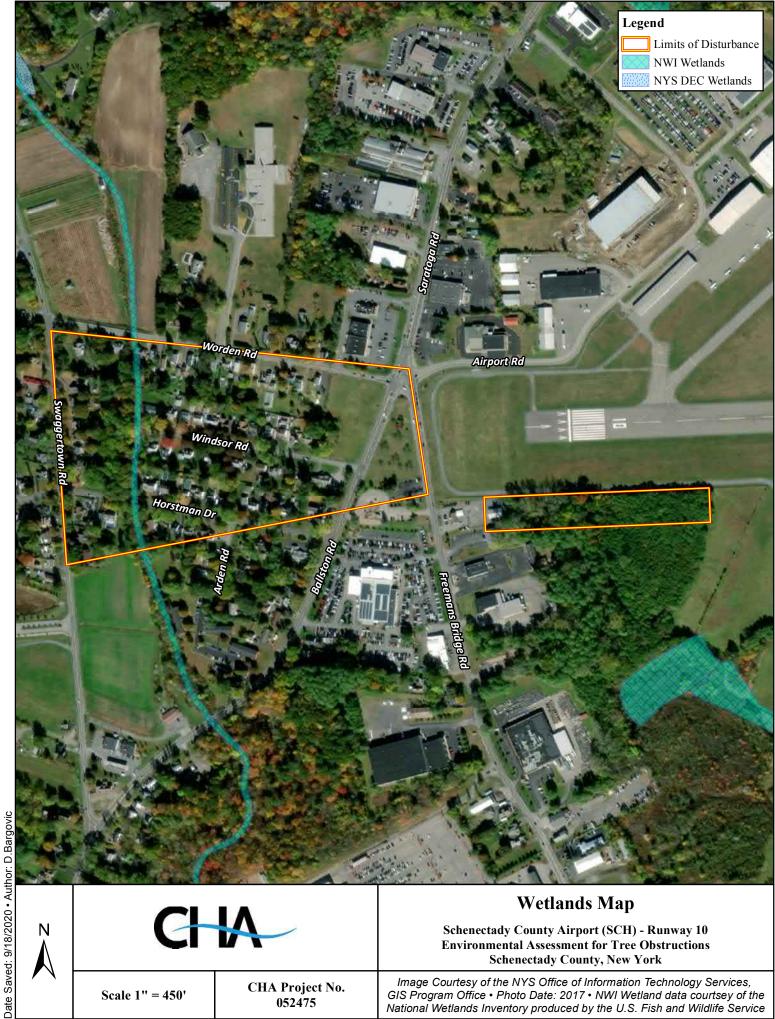






Aerial Location Map

Schenectady County Airport (SCH) - Runway 10 **Environmental Assessment for Tree Obstructions** Schenectady County, New York







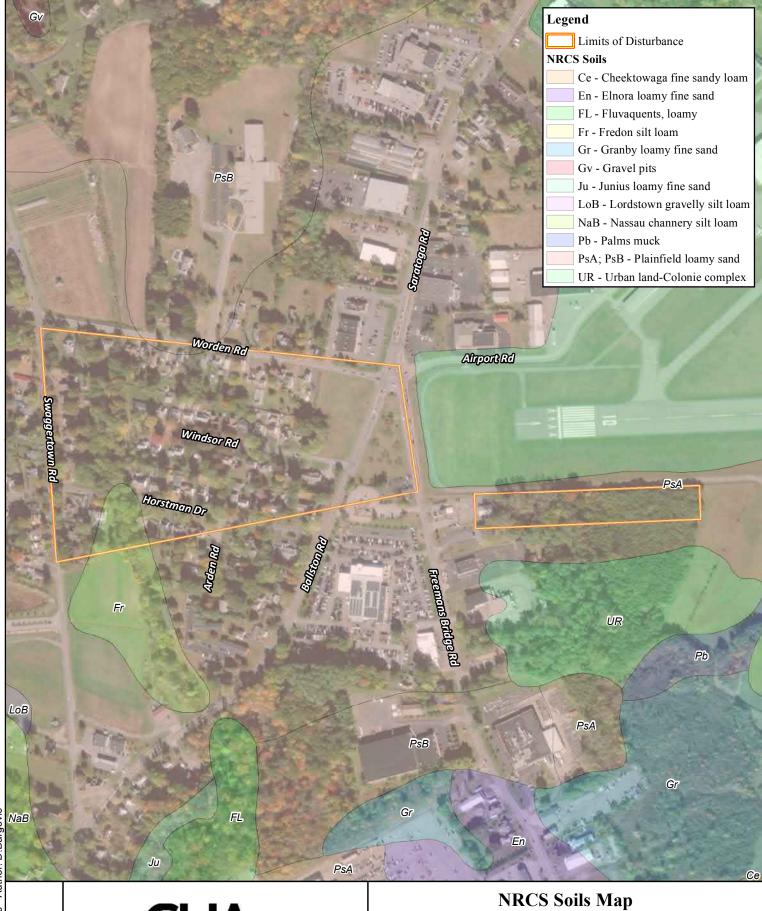
Wetlands Map

Schenectady County Airport (SCH) - Runway 10 **Environmental Assessment for Tree Obstructions** Schenectady County, New York

Scale 1" = 450'

CHA Project No. 052475

Image Courtesy of the NYS Office of Information Technology Services, GIS Program Office • Photo Date: 2017 • NWI Wetland data courtsey of the National Wetlands Inventory produced by the U.S. Fish and Wildlife Service





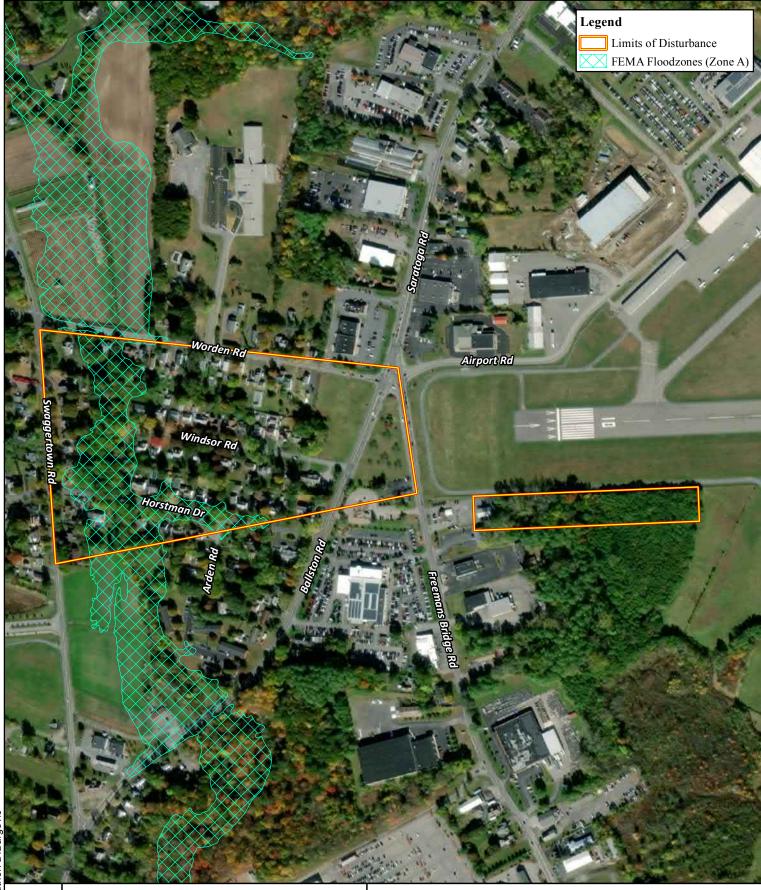


Scale 1" = 450'

CHA Project No. 052475

Schenectady County Airport (SCH) - Runway 10 **Environmental Assessment for Tree Obstructions** Schenectady County, New York

Image Courtesy of the NYS Office of Information Technology Services, GIS Program Office • Photo Date: 2017 Soil Data Courtesy of the Natural Resource Conservation Service







Schenectady County Airport (SCH) - Runway 10 **Environmental Assessment for Tree Obstructions** Schenectady County, New York

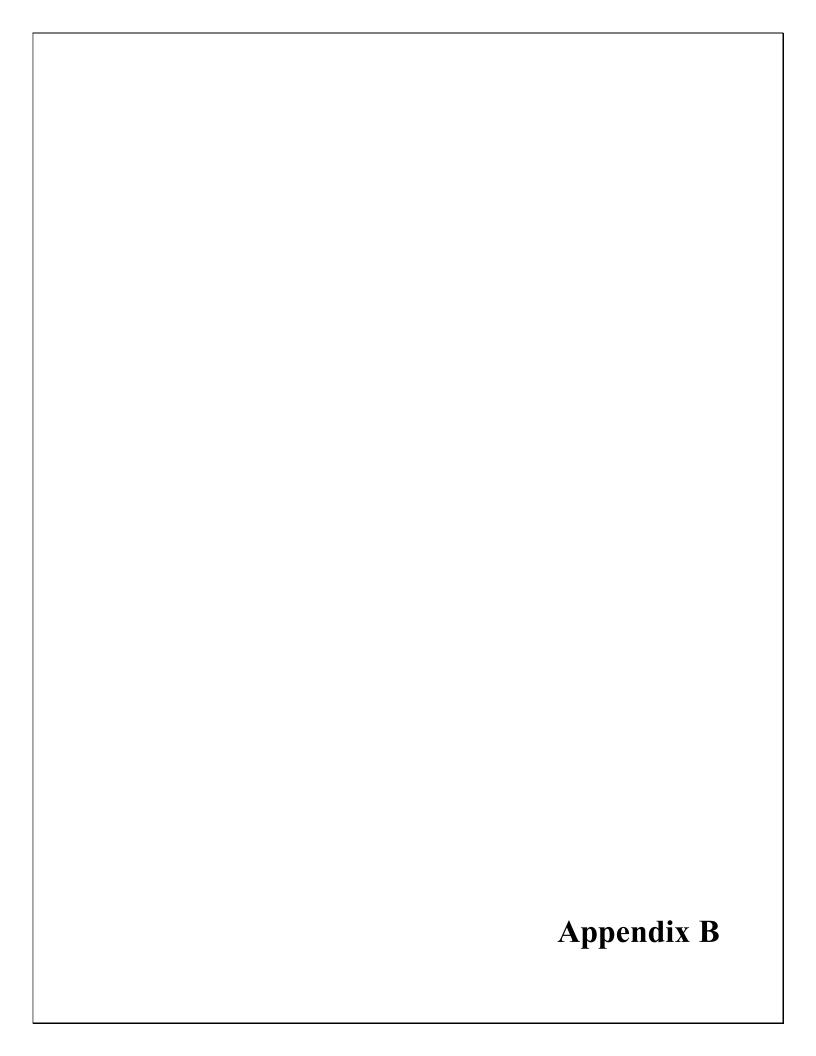
CHA Project No. 052475

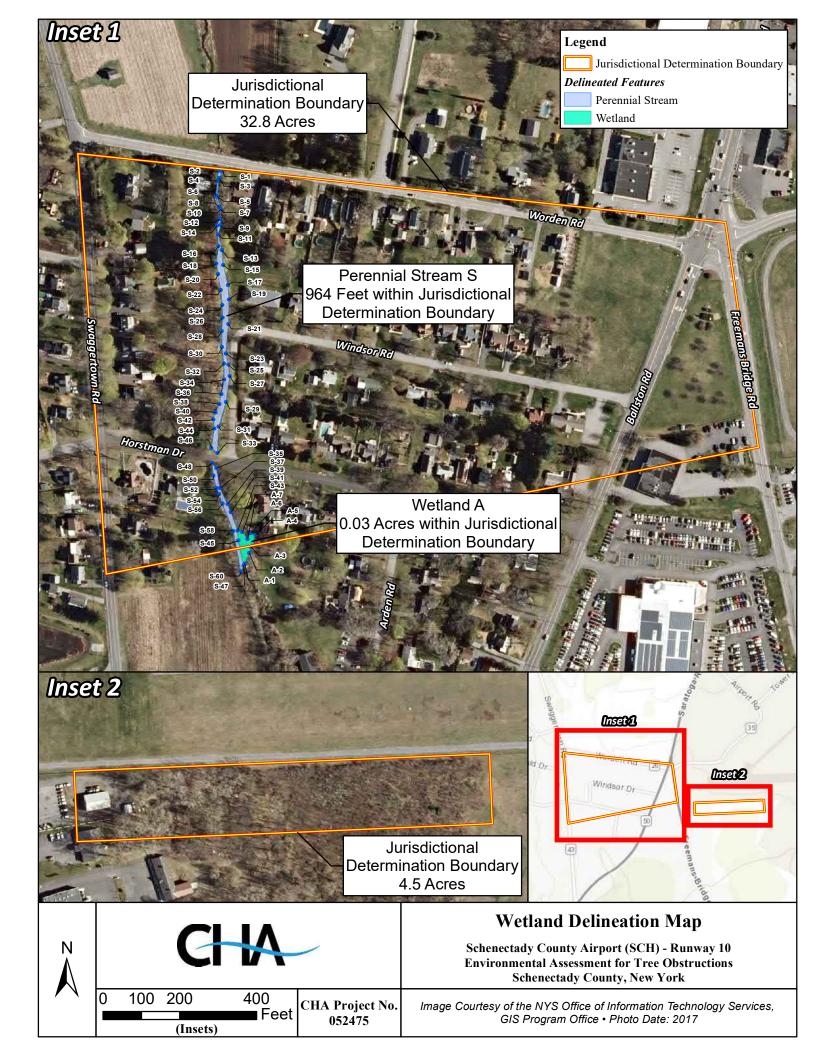
Image Courtesy of the NYS Office of Information Technology Services, GIS Program Office • Photo Date: 2017 Floodzones courtesy of the Federal Emergency Managment Agency (FEMA)

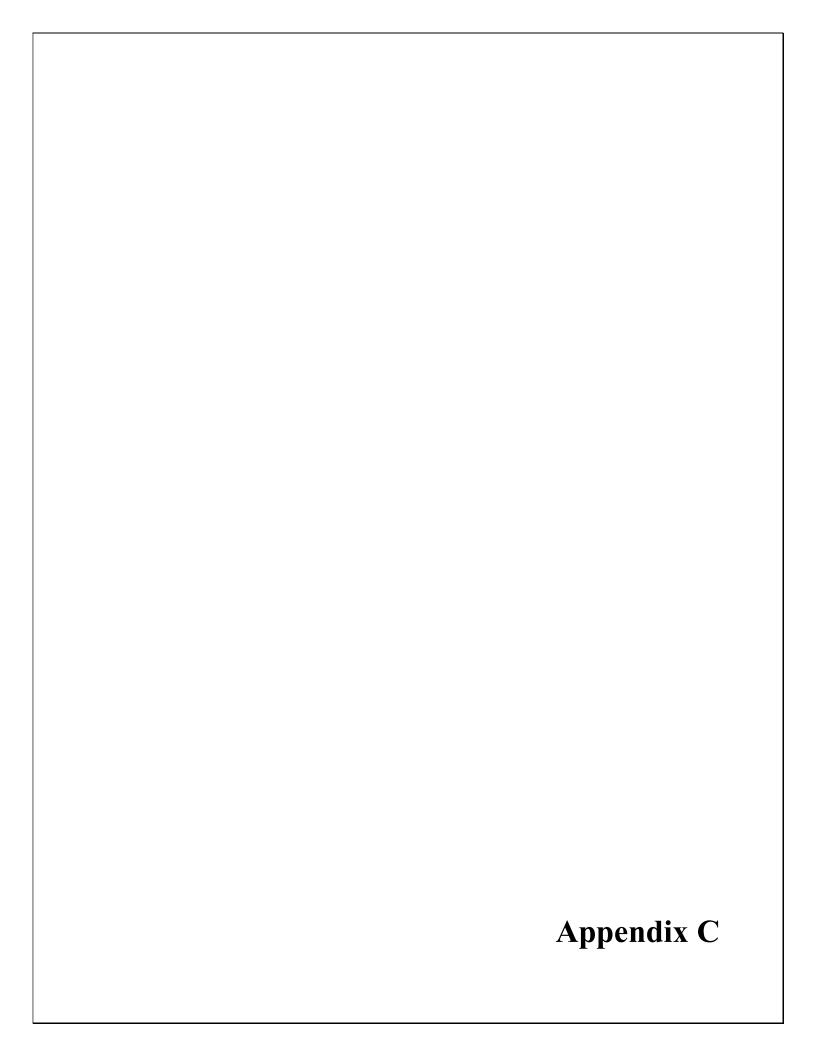
FEMA Floodzone Map

Scale 1" = 450'

Date Saved: 9/18/2020 • Author: D.Bargovic







WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Schenectady County Airport	City/County: Glenville/ Schenectady Sampling Date: 9/29/20
Applicant/Owner: County of Schenectady	State: NY Sampling Point: Wet A-2
Investigator(s): N. Frazer & C. Scrivner	Section, Township, Range:
· · · · · ·	relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42° 50′ 49.07″	Long: -73° 56' 51.03" Datum:
Soil Map Unit Name: Ferdon silt loam (Fr)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (I	
High Water Table (A2) Aquatic Fauna (B13) And Basic (B15)	Moss Trim Lines (B16)
x Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) — Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of Bedward In	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction in This Musik Surface (C7)	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5) Thin Muck Surface (C7) Other (Fynisis in Remove the Control of the Control	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar Sparsely Vegetated Concave Surface (B8)	Ks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	A FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No x Depth (inches):	
Water Table Present? Yes No x Depth (inches):	
Saturation Present? Yes x No Depth (inches):	:12 Wetland Hydrology Present? YesX No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks: This wetland is adjacent to a perennial stream.	

VEGETATION – Use scientific names of plants.

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species 2	Indicator	Dominance Test worksheet
		Species?	Status	Dominance Test worksheet:
Acer negundo	15	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
. <u> </u>				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 80.0% (A/E
				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')			OBL species0 x 1 =0
. Cornus amomum	15	Yes	FACW	FACW species 105 x 2 = 210
·				FAC species 20 x 3 = 60
				FACU species12 x 4 =48
				UPL species0 x 5 =0
				Column Totals: 137 (A) 318 (E
				Prevalence Index = B/A = 2.32
				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
Impatiens pallida	90	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
. Rosa multiflora	2	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
·	-			Problematic Hydrophytic Vegetation ¹ (Explain)
i				1 adjacete was of budgies and another debuggies and another debuggies.
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
	<u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in
· -				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardles
	92	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size:30')			Woody vines – All woody vines greater than 3.28 ft i
Vitis riparia	5	Yes	FAC	height.
Parthenocissus quinquefolia	10	Yes	FACU	Hydrophytic
·				Vegetation
·	<u> </u>			Present?
	15	=Total Cover		

SOIL Sampling Point Wet A-2

		o the de				tor or co	onfirm the absence of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	es Type ¹	Loc ²	Texture Remarks		
0-10	10YR 2/1	70	7.5YR 3/4	30	C	M	Loamy/Clayey Prominent redox concentrations	_	
10-11	10YR 3/1	80	10YR 3/6	15			Loamy/Clayey Prominent redox concentrations		
			10YR 5/1	5					
11-18	2.5Y 2.5/1	90	7.5YR 4/4	10			Loamy/Clayey Prominent redox concentrations		
								_	
¹Type: C=Co	oncentration, D=Deple	etion, RM	======================================	 IS=Masl	ked Sand	Grains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:						Indicators for Problematic Hydric Soils ³ :		
Histosol			? Polyvalue Belov		ce (S8) (LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Histic Epipedon (A2)								
Black His	` '		Thin Dark Surfa	` '	•	•	, <u> </u>	2)	
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)		
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)									
Thick Dark Surface (A12) Depleted Matrix (F3) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B)									
	Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)						-		
	leyed Matrix (S4)		Depleted Dark		-		Red Parent Material (F21)	,	
	edox (S5)		? Redox Depress				Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) (LRI	//arl (F10) (LRR K, L)			Other (Explain in Remarks)		
Dark Sur	face (S7)								
³ Indicators of	hydrophytic vegetati	on and w	vetland hydrology mu	st be pr	esent, ur	nless dist	turbed or problematic.		
Restrictive L	ayer (if observed):		, 0,						
Type:	none	Э							
Depth (ir	nches):						Hydric Soil Present? Yes X No	ı	
Remarks:							0.01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	m is revised from Noi 2015 Errata. (http://w						n 2.0 to include the NRCS Field Indicators of Hydric Soils,		
VCISION 7.0,	2010 Errata. (Int.p.//w	ww.iiios.	usua.gov/internet/1 c	L_DOC	JOIVILITI	0/11/03 14	72PZ_001200.000X)		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Schenectady County Airport	City/County: Glenville/ Schenectady Sampling Date: 9/29/20
Applicant/Owner: County of Schenectady	State: NY Sampling Point: Upl A-2
Investigator(s): N. Frazer & C. Scrivner	Section, Township, Range:
	relief (concave, convex, none): convex Slope %: 2
·	Long: -73° 56' 51.03" Datum:
Soil Map Unit Name: Fredon silt loam (Fr)	NWI classification: n/a
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrologynaturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)Water-Stained Leaves ((B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced In	ron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	rks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (inches)	:
Water Table Present? Yes No x Depth (inches)):
Saturation Present? Yes No x Depth (inches)	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

Γ <u>ree Stratum</u> (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Juglans nigra	8	Yes	FACU	Number of Dominant Species
Acer negundo	3	Yes	FAC	That Are OBL, FACW, or FAC:3(A)
				Total Number of Dominant
·		<u> </u>		Species Across All Strata: 8 (B)
i				Percent of Dominant Species
i				That Are OBL, FACW, or FAC: 37.5% (A/B)
·				Prevalence Index worksheet:
	11	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
. Rhamnus cathartica	5	Yes	FAC	FACW species 0 x 2 = 0
Ailanthus altissima	5	Yes	UPL	FAC species 38 x 3 = 114
Rubus occidentalis	15	Yes	UPL	FACU species 42 x 4 = 168
i				UPL species 61 x 5 = 305
i				Column Totals: 141 (A) 587 (B)
i				Prevalence Index = B/A = 4.16
·				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size:5')				2 - Dominance Test is >50%
. Glechoma hederacea	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
. Poa pratensis	6	No	FACU	4 - Morphological Adaptations ¹ (Provide supportin
Oxalis stricta	5	No	FACU	data in Remarks or on a separate sheet)
. Artemisia vulgaris	1	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
. Hackelia virginiana	3	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
Parthenocissus quinquefolia	5	No	FACU	be present, unless disturbed or problematic.
. Vitis riparia	10	No	FAC	Definitions of Vegetation Strata:
. Chelidonium majus	40	Yes	UPL	Tree – Woody plants 3 in. (7.6 cm) or more in
L				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')		-		Woody vines All woody vines greater than 2.29 ft in
. Vitis riparia	20	Yes	FAC	Woody vines – All woody vines greater than 3.28 ft in height.
2.				
				Hydrophytic
				Vegetation Present? Yes No X
	20	=Total Cover		
				1

SOIL Sampling Point Upl A-2

Color (moist)	Depth	Matrix		Redox	x Featur	es			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ##ydric Soil Indicators: Histosol (A1)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Ptydric Soil Indicators: Histosol (A1) Histo Epipedon (A2) Histo Epipedon (A2) Black Histic (A3) Hydroge Sulfde (A4) Hydroge Sulfde (A4) Hydroge Sulfde (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (B1) Sandy Mucky Mineral (B1) Sandy Mucky Mineral (B1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S4) Depleted Matrix (S4) Depleted Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (A71) Polymatic Below Dark Surface (A12) Sandy Redox (B1) Nesic Spodic (TA6) (MLRA 144A, 145, 149B Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Redox (S5) Marl (F10) (LRR K, L) Depleted Matrix (S6) Dark Surface (S7) Principle Matrix (S6) Dark Surf	0-15	10YR 2/2	100					Loamy/Clayey	
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Histosol (A1)			, dorr, r div	T Troudoca Wathx, W	- Wasi	itou ourie	oranio.		
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Black Histic (A3)		, ,				, , ,	,		
Stratified Layers (A5)				Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	49B) 5 cm Mucky	y Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11)	Hydroge	en Sulfide (A4)		High Chroma S	ands (S	311) (LRI	R K, L)	Polyvalue E	Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Stratified	d Layers (A5)		Loamy Mucky I	Mineral	(F1) (LR I	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes No X Remarks:	Depleted	d Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
Sandy Gleyed Matrix (S4)									
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Bridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes No X Remarks:						-			
Stripped Matrix (S6)									
Dark Surface (S7) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes NoX Remarks:						8)			
Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes No _X Remarks:				Mari (F10) (LR	RK, L)			Otner (Expi	ain in Remarks)
Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes No _X Remarks:	Dark Su	nace (S7)							
Restrictive Layer (if observed): Type: none Depth (inches): Hydric Soil Present? Yes No _X Remarks:	³ Indicators o	f hydrophytic vegetation	on and w	vetland hydrology mu	ıst be pr	esent ur	nless dist	urbed or problematic	
Type: none Depth (inches): Hydric Soil Present? Yes No _X Remarks:		, , , ,		onana nyanonogy mo					
Remarks:			:						
Remarks:	Denth (i	nches).						Hydric Soil Present?	Yes No X
								11,4110 00111 10001111	
		m is revised from Nor	thcentra	I and Northeast Regi	ional Su	nnlemen	t Version	2.0 to include the NRCS	Field Indicators of Hydric Soils
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)									

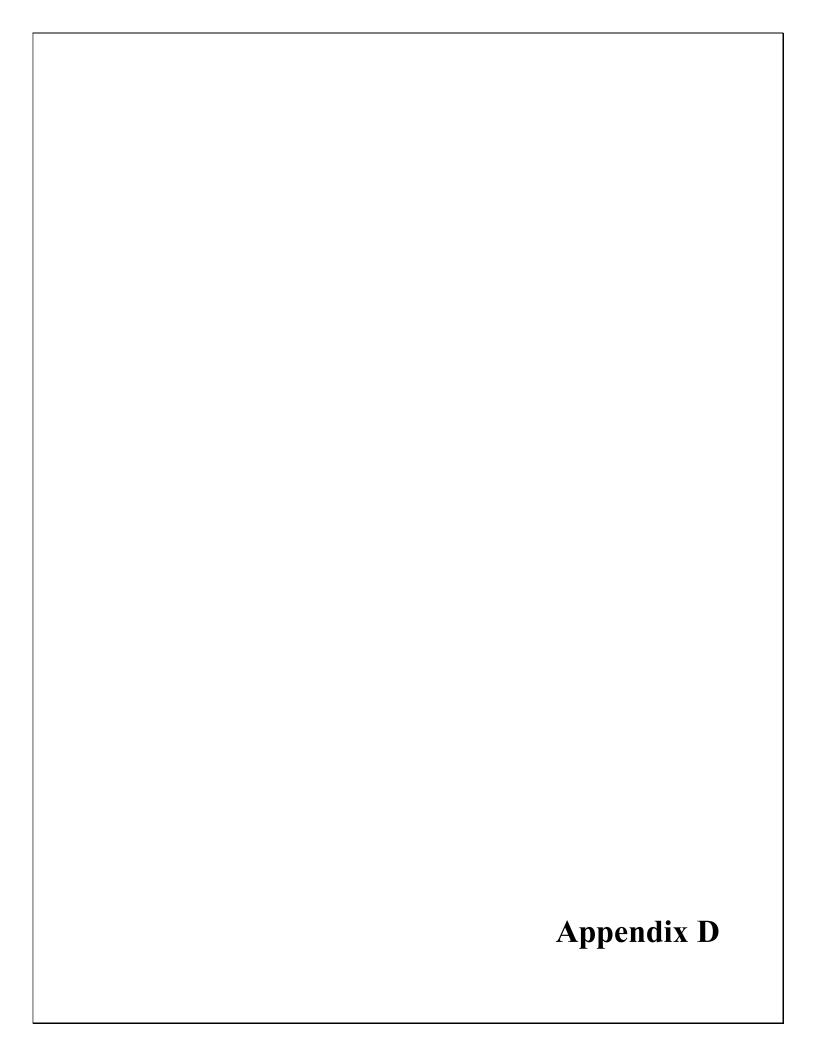




Photo 1-Stream S near flag S-1 facing south.



Photo 2- Stream S near flag S-1 facing north.





Photo 3- Stream S near flag S-11 facing north.



Photo 4- Stream S near flag S-11 facing south.





Photo 5- Stream S near flag S-33 facing north.

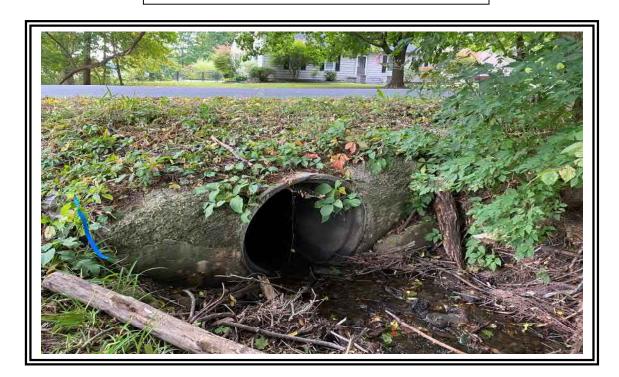


Photo 6- Stream S near flag S-33 facing south.





Photo 7- Stream S near flag S-47 facing south.

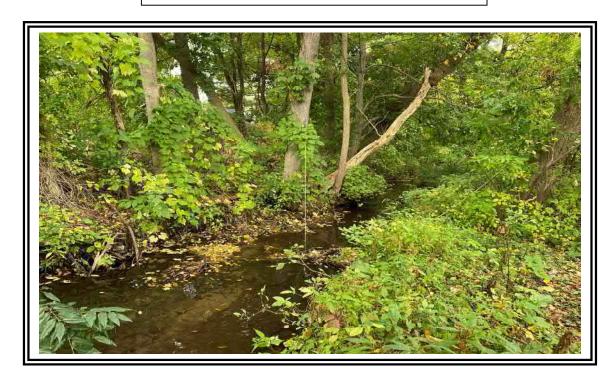


Photo 8- Stream S near flag S-47 facing north.





Photo 9-Wetland A near flag A-2.



Photo 10-Wetland A soils near flag A-2.



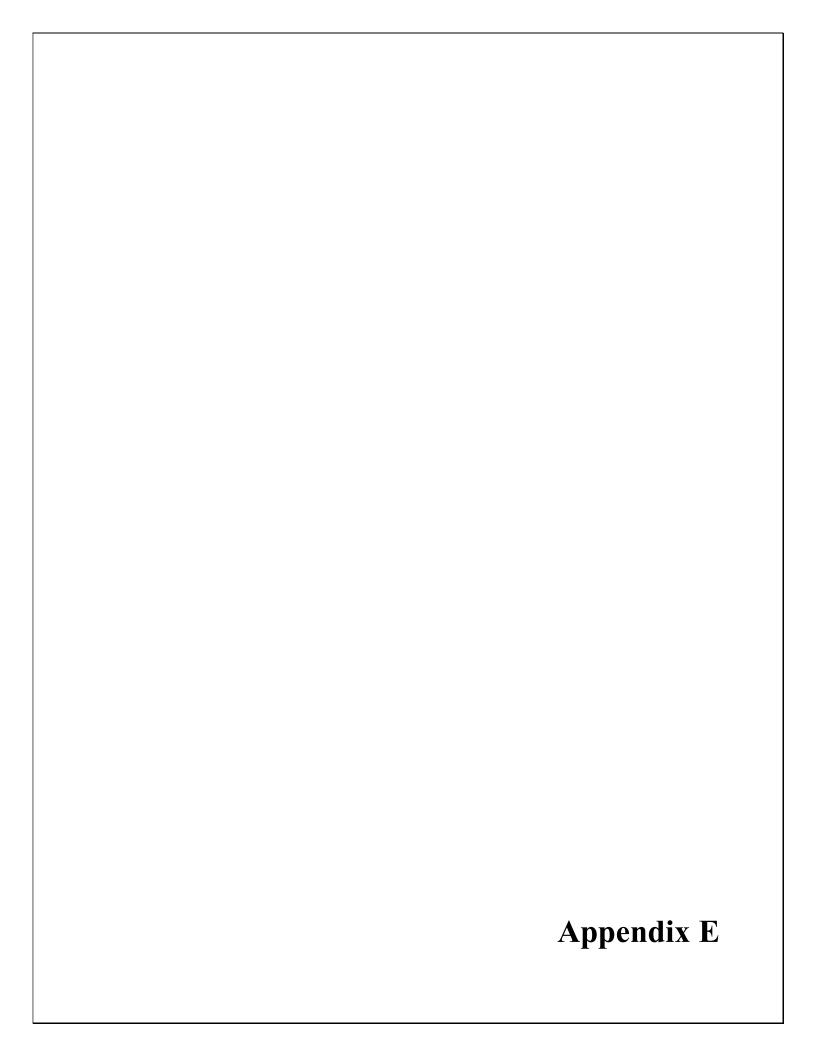


Photo 11-Upland A near flag A-2.



Photo 12-Upland A soils near flag A-2.





ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: County of Schenectady, 100 Kellar Avenue, Schenectady NY 12306-1126
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER: New York District
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NY County/parish/borough: Schenectady County/ Town of Glenville Center coordinates of site:

Lat. 42-50-54.03 Pick List, Long. Pick List. -73-56-47.12

Universal Transverse Mercator:

Name of nearest waterbody: Horstman Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 964 linear feet

Cowardin Class: R5UBH Stream Flow: Perennial Wetlands: 0.03 acres. Cowardin Class: PEM

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: N/A Non-Tidal: N/A

E.	REVIEW PERFORMED FOR	SITE EVALUATION	(CHECK ALL	THAT
APPL	.Y):			
	Office (Desk) Determination	Date:		

Office (Desk) Determ	nination.	Date
Field Determination.	Date(s):	:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to

request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by o applicant/consultant:	r on behalf of the							
☑ Data sheets prepared/submitted by or or	n behalf of the							
applicant/consultant.								
Office concurs with data sheets/deline	•							
Office does not concur with data sheeData sheets prepared by the Corps:	ets/delineation report.							
Corps navigable waters' study:								
U.S. Geological Survey Hydrologic Atlas	: .							
USGS NHD data. USGS 8 and 12 digit HUC maps.								
☐ U.S. Geological Survey map(s). Cite sca	le & quad name:1" = 2000'							
Schenectady Quadrangle.	·							
☐ USDA Natural Resources Conservation								
NRCS Soil Survey for Schenectady County. National wetlands inventory map(s). Cite name: Schenectady								
Quadrangle.	e flame. Schemedady							
State/Local wetland inventory map(s): N	YSDEC Freshwater Wetland Map							
FEMA/FIRM maps: Panel 36093C0152D								
☐ 100-year Floodplain Elevation is: Not sho ☐ Photographs: ☐ Aerial (Name & Date):								
or ⊠ Other (Name & Date): Site								
September 29, 2020.	Thotographic taken by Grint en							
Previous determination(s). File no. and	date of response letter:							
Other information (please specify):								
IMPORTANT NOTE: The information records	ed on this form has not							
necessarily been verified by the Corps and should not be relied upon for								
later jurisdictional determinations.								
Signature and date of Corps	Signature and date of							
Project Manager (REQUIRED)	person requesting preliminary JD (REQUIRED, unless obtaining							
(the signature is impracticable)							

		Aquatic	Resources		
Feature	Latitude (decimal degrees)	Longitude (decimal degrees)	Type of Aquatic Resource	Estimated Amount of Aquatic Resource in Review Area	Geographic Authority
Wetland A	Center Point Co	oordinates	Wetland	0.03 acres	Section 404
	42.846965	-73.947507			
Stream S	Beginning Point	Coordinates	Non- wetland	964 linear feet	Section 404
	42.849595	-73.947666	Wottand		
	Ending Point Co	oordinates			
	42.846895	-73.947604			